

ABSTRACT OF THE DISCLOSURE

A method of resisting corrosion in concrete containing metal elements is provided. It includes introducing into fresh concrete, containing metal elements, at least one compound capable of sequestering chloride ions. The method may also involve employing a compound which is capable of establishing a corrosion resistant oxide layer on the metal reinforcing elements. The invention also includes certain compounds which may be employed in the method as well as concrete structures containing the compounds. In another embodiment of the invention, concrete structures may be rehabilitated by providing an overlay containing a compound of the type which will contribute to corrosion resistance either through chloride ion sequestering or creating barriers around metal structural elements with the overlay being provided in situ or as a preformed member and with possible use of a slurry in combination with an overlay segment.